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### 1 [Caching strategies in on-demand routing protocols for wireless ad hoc networks](#)



Yih-Chun Hu, David B. Johnson

 August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(1.36 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An on-demand routing protocol for wireless and hoc networks is one that searches for and attempts to discover a route to some destination node only when a sending node originates a data packet addressed to that node. In order to avoid the need for such a route discovery to be performed before each data packet is sent, such routing protocols must cache routes previously discovered. This paper presents an analysis of the effects of different design choices for this caching in ...

### 2 [Workshop on mobile computing systems and applications, December 1994: digest of proceedings](#)



M. Satyanarayanan

 April 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(928.56 KB)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

The goal of this two-day meeting was to foster interaction between active workers in mobile computing, with a view toward cross-fertilization of ideas. Given the youth of the field, such interactions could have substantial impact on its future direction. In keeping with this goal, the conference organizers chose to have a small, informal workshop rather than a larger and more formal conference. The workshop was sponsored by the IEEE Computer Society Technical Committee on Operating Systems, in c ...

### 3 [Software engineering for mobility: a roadmap](#)





Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy


 May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press

Full text available: pdf(2.07 MB)



 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 4 Broadcast disks: data management for asymmetric communication environments   
 Swarup Acharya, Rafael Alonso, Michael Franklin, Stanley Zdonik  
May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data SIGMOD '95**, Volume 24 Issue 2  
**Publisher:** ACM Press

Full text available:  [pdf\(1.60 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper proposes the use of repetitive broadcast as a way of augmenting the memory hierarchy of clients in an asymmetric communication environment. We describe a new technique called "Broadcast Disks" for structuring the broadcast in a way that provides improved performance for non-uniformly accessed data. The Broadcast Disk superimposes multiple disks spinning at different speeds on a single broadcast channel--in effect creating an arbitrarily fine-grained memory hierarchy. In addition to pr ...



- 5 Reasoning about code mobility with mobile UNITY   
 Gian Pietro Picco, Gruia-Catalin Roman, Peter J. McCann  
July 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 10 Issue 3  
**Publisher:** ACM Press

Full text available:  [pdf\(419.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Advancements in network technology have led to the emergence of new computing paradigms that challenge established programming practices by employing weak forms of consistency and dynamic forms of binding. Code mobility, for instance, allows for invocation-time binding between a code fragment and the location where it executes. Similarly, mobile computing allows hosts (and the software they execute) to alter their physical location. Despite apparent similarities, the two paradigms are disti ...



**Keywords:** UNITY, code mobility, mobile agent


- 6 Pushing politely: improving Web responsiveness one packet at a time   
 Brian D. Davison, Vincenzo Liberatore  
September 2000 **ACM SIGMETRICS Performance Evaluation Review**, Volume 28 Issue 2  
**Publisher:** ACM Press

Full text available:  [pdf\(650.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The rapid growth of traffic on the World-Wide Web results in heavier loads on networks and servers and in increased latency experienced while retrieving web documents. This paper presents a framework that exploits idle periods to satisfy future HTTP requests speculatively and opportunistically. Our proposal differs from previous schemes in that speculative dissemination always gives precedence to on-demand traffic, uses ranged requests for improved performance, and can be implemented over a conn ...

- 7 Queue management for explicit rate based congestion control   
 Qingming Ma, K. K. Ramakrishnan  
June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97**, Volume 25 Issue 1  
**Publisher:** ACM Press

Full text available:  [pdf\(2.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Rate based congestion control has been considered desirable, both to deal with the high bandwidth-delay products of today's high speed networks, and to match the needs of emerging multimedia applications. Explicit rate control achieves low loss because sources

transmit smoothly at a rate adjusted through feedback to be within the capacity of the resources in the network. However, large feedback delays, presence of higher priority traffic, and varying transient situations make it difficult to ens ...

8 A hierarchical fair service curve algorithm for link-sharing, real-time, and priority services ☐

Ion Stoica, Hui Zhang, T. S. Eugene Ng


April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

**Publisher:** IEEE Press

Full text available:  [pdf\(278.75 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


**Keywords:** fairness, link-sharing, packet scheduling, quality of service (QoS), real-time

9 TeleNotes: managing lightweight interactions in the desktop ☐

 Steve Whittaker, Jerry Swanson, Jakov Kucan, Candy Sidner

June 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Communication theories and technology have tended to focus on extended, formal meetings and have neglected a prevalent and vital form of workplace communication—namely, lightweight communication. Unlike formal, extended meetings, lightweight interaction is brief, informal, unplanned, and intermittent. We analyze naturalistic data from a study of work-place communication and derive five design criteria for lightweight interaction systems. These criteria require that systems for lightwe ...


**Keywords:** audio, awareness, computer-media spaces, conversation management, impromptu communication, informal communication, interpersonal communications, lightweight interaction, mediated communication, remote collaboration, task management, video

10 A hierarchical fair service curve algorithm for link-sharing, real-time and priority services ☐

 Ion Stoica, Hui Zhang, T. S. Eugene Ng

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(2.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In this paper, we study hierarchical resource management models and algorithms that support both link-sharing and guaranteed real-time services with decoupled delay (priority) and bandwidth allocation. We extend the service curve based QoS model, which defines both delay and bandwidth requirements of a class, to include fairness, which is important for the integration of real-time and hierarchical link-sharing services. The resulting *Fair Service Curve link-sharing* model formalizes the go ...

11 Interaction and outeraction: instant messaging in action ☐

Bonnie A. Nardi, Steve Whittaker, Erin Bradner

 December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

**Publisher:** ACM Press

Full text available:  pdf(163.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We discuss findings from an ethnographic study of instant messaging (IM) in the workplace and its implications for media theory. We describe how instant messaging supports a variety of informal communication tasks. We document the affordances of IM that support flexible, expressive communication. We describe some unexpected uses of IM that highlight aspects of communication which are not part of current media theorizing. They pertain to communicative processes people use to connect with eac ...


**Keywords:** computer-mediated communication, informal communication, instant messaging, media theory, outerraction

12 A computational model and classification framework for social navigation 

 Mark O. Riedl

January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**


**Publisher:** ACM Press

Full text available:  pdf(247.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Social navigation is the process of making navigational decisions in real or virtual environments based on social and communicative interaction with others. A computational model for social navigation is presented as an extension to an existing framework for general navigation, reducing decision-making to the minimization of cognitive costs. Consideration for social navigation gives rise to a classification framework based on the synchronicity, directness, and social presence during social ...

**Keywords:** World Wide Web, embodied avatars, recommender systems, social navigation model, social presence

13 Considerations for information environments and the NaviQue workspace 


 George W. Furnas, Samuel J. Rauch

May 1998 **Proceedings of the third ACM conference on Digital libraries**

**Publisher:** ACM Press

Full text available:  pdf(1.40 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Informal workplace communication: what is it like and how might we support it? 

 Steve Whittaker, David Frohlich, Owen Daly-Jones

April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**

**Publisher:** ACM Press

Full text available:  pdf(861.18 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


**Keywords:** CSCW, audio, ethnography, informal communication, video, workplace activity

 Consultants and apprentices: observations about learning and collaborative problem solving ☐

Lucy M. Berlin, Robin Jeffries

December 1992 **Proceedings of the 1992 ACM conference on Computer-supported cooperative work**

**Publisher:** ACM Press

Full text available:  [pdf\(955.36 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)


**Keywords:** apprentice, consultant, incidental learning, programmer, shared artifacts

**16** Distributed cognition: toward a new foundation for human-computer interaction research ☐

 James Hollan, Edwin Hutchins, David Kirsh

June 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 2


**Publisher:** ACM Press

Full text available:  [pdf\(123.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We are quickly passing through the historical moment when people work in front of a single computer, dominated by a small CRT and focused on tasks involving only local information. Networked computers are becoming ubiquitous and are playing increasingly significant roles in our lives and in the basic infrastructures of science, business, and social interaction. For human-computer interaction to advance in the new millennium we need to better understand the emerging dynamic of interaction in ...

**Keywords:** cognitive science, distributed cognition, ethnography, human-computer interaction, research methodology

**17** Learner-centered system design: HCI perspective for the future ☐

 Mark Guzdial, Yasmin B. Kafai, John B. Carroll, Gerhard Fischer, Roger Schank, Elliot Soloway

August 1995 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, & techniques**





**Publisher:** ACM Press

Full text available:  [pdf\(572.33 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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### 1 [Charting past, present, and future research in ubiquitous computing](#)



Gregory D. Abowd, Elizabeth D. Mynatt

 March 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: pdf (730.83 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The proliferation of computing into the physical world promises more than the ubiquitous availability of computing infrastructure; it suggests new paradigms of interaction inspired by constant access to information and computational capabilities. For the past decade, application-driven research on ubiquitous computing (ubiquitous computing) has pushed three interaction themes: natural interfaces, context-aware applications, and automated capture and access. To chart a course ...

**Keywords:** augmented reality, capture and access, context-aware applications, evaluation, everyday computing, natural interfaces, social implications, ubiquitous computing, user interfaces

### 2 [Caching strategies in on-demand routing protocols for wireless ad hoc networks](#)



Yih-Chun Hu, David B. Johnson

 August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf (1.36 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


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### 3 [Software engineering for mobility: a roadmap](#)




Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy


 May 2000 **Proceedings of the Conference on The Future of Software Engineering**

**Publisher:** ACM PressFull text available:  [pdf\(2.07 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**4** [Broadcast disks: data management for asymmetric communication environments](#)  Swarup Acharya, Rafael Alonso, Michael Franklin, Stanley Zdonik  
May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data SIGMOD '95**, Volume 24 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(1.60 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper proposes the use of repetitive broadcast as a way of augmenting the memory hierarchy of clients in an asymmetric communication environment. We describe a new technique called "Broadcast Disks" for structuring the broadcast in a way that provides improved performance for non-uniformly accessed data. The Broadcast Disk superimposes multiple disks spinning at different speeds on a single broadcast channel--in effect creating an arbitrarily fine-grained memory hierarchy. In addition to pr ...

**5** [Workshop on mobile computing systems and applications, December 1994: digest of proceedings](#)  M. Satyanarayanan  
April 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(928.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

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**6** [IP next generation overview](#)  Robert M. Hinden  
June 1996 **Communications of the ACM**, Volume 39 Issue 6**Publisher:** ACM PressFull text available:  [pdf\(610.92 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)**7** [Designing audio aura](#)  Elizabeth D. Mynatt, Maribeth Back, Roy Want, Michael Baer, Jason B. Ellis  
January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems****Publisher:** ACM Press/Addison-Wesley Publishing Co.Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** VRML, active badge, audio, auditory icons, augmented reality, awareness, earcons, periphery

**8** [Reasoning about code mobility with mobile UNITY](#) 

Gian Pietro Picco, Gruia-Catalin Roman, Peter J. McCann

July 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM),**

Volume 10 Issue 3

**Publisher:** ACM PressFull text available: pdf(419.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Advancements in network technology have led to the emergence of new computing paradigms that challenge established programming practices by employing weak forms of consistency and dynamic forms of binding. Code mobility, for instance, allows for invocation-time binding between a code fragment and the location where it executes. Similarly, mobile computing allows hosts (and the software they execute) to alter their physical location. Despite apparent similarities, the two paradigms are disti ...

**Keywords:** UNITY, code mobility, mobile agent

9 Implications of the wireless web for technical communicators: User web browsing characteristics using palm handhelds for information retrieval

Michael J. Albers, Loel Kim

September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork**

**Publisher:** IEEE Educational Activities DepartmentFull text available: pdf(700.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

An increasing amount of information is being disseminated to decision-makers via web interfaces. Because there is also an increase in the use of personal digital assistants (PDA's), future web sites must accommodate handheld access. With easy ability to synchronize content from the web with handheld systems, basic web design assumptions should be reexamined to determine how handheld's affect search and retrieval. The small screen size, text-based design, and cumbersome interface manipulation req ...

10 Dual device user interface design: PDAs and interactive television



Scott Robertson, Cathleen Wharton, Catherine Ashworth, Marita Franzke

April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**

**Publisher:** ACM PressFull text available: pdf(1.35 MB) html(32.77 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** interactive television, mobile computing, multiple devices, personal digital assistants, ubiquitous computing

11 Workshop on software engineering and mobility

Gruia-Catalin Roman, Gian Pietro Picco

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

**Publisher:** IEEE Computer SocietyFull text available: pdf(45.55 KB) Publisher Site Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)





*Mobility is redefining the hardware and software fabric of distributed systems. Wireless communication allows network hosts to participate in a distributed computation while on the move. Novel middleware technologies allow software components to migrate across*

*hosts for enhanced flexibility or performance. Workshop participants were invited to analyze the software engineering implications of this wave of technological changes, by discussing fundamental models, emerging themes, research opp ...*

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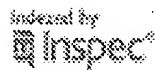
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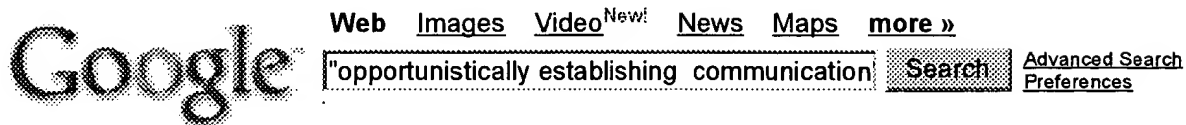
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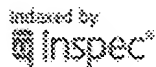
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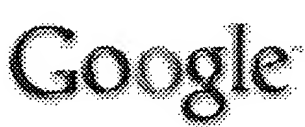
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L31	188	(transmit\$5 offload\$5 upload\$5) same (opportuni\$9) same (wireless) and l28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 14:45
L30	34	(transmit\$5 offload\$5 upload\$5) same (opportuni\$9) same (wireless) and l27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 14:44
L24	166	(transmit\$5 offload\$5 upload\$5) near6 (opportuni\$9) same (wireless)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 14:44
L29	113502	"455"\$.ccls	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 14:42
L28	100733	"370"\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 14:42
L27	47148	"709"\$.ccls	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 14:41
L26	13	(TXOP) and (camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 14:40
L25	186	(TXOP)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 14:30
L23	2562	(transmit\$5 offload\$5 upload\$5) near6 (opportuni\$9)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 13:49

## EAST Search History

L21	47	(transmit\$5 offload\$5 upload\$5) adj3 (image data) near5 (possible) near4 (transmission) same (memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 13:47
L20	683	(transmit\$5 offload\$5 upload\$5) adj3 (image data) near5 (possible) near4 (transmission)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 13:43
L19	243	(possible) near4 (transmit\$8 transmission) near4 (camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 13:17
L18	1265	(possible) near4 (transmit\$8 transmission) same (camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 13:17
L17	24	(range) near4 (based oriented dependent driven) near4 (transmit\$8 transmission) same (camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 13:15
L13	245	(transmit\$5 offload\$5 upload\$5) adj3 (image data) adj3 (multipl\$5 additional different) adj3 (device route)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 13:06
L14	2	(transmit\$5 offload\$5 upload\$5) adj3 (image data) adj3 (multipl\$5 additional different) adj3 (device route) same (camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 11:36
L12	2932	(transmit\$5 offload\$5 upload\$5) adj5 (image data) near6 (multipl\$5 additional different) near5 (device route)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 11:34
L11	13	(transmit\$5) adj5 (multipl\$5 additional) near5 (packet frame) near6 (neighbor\$5 neighbour\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 11:31
L10	0	(transmit\$5) adj5 (multipl\$5 additional) near5 (packet frame) near6 (backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 11:03
L9	0	(transmit\$5) adj5 (multipl\$5 additional) near5 (copies) near5 (packet frame) near6 (backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 11:03

## EAST Search History

L8	0	(transmit\$5) adj5 (multipl\$5 additional) near5 (copies) near5 (data image) near6 (backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 11:02
L7	37	(transmit\$5) adj5 (copies) near5 (data image) same (backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 11:01
L6	3	(transmit\$5) same (additional) near5 (backup) near4 (copy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 10:46
L5	0	(upload\$5 offload\$5) same (additional) near5 (backup) near4 (copy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 10:11
L4	5	(upload\$5 offload\$5) same (automatic\$5) same (backup) same (copy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 10:11
L3	30	(upload\$5 offload\$5) near5 (digital near3 camera) near5 (memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 10:08
L2	98	(manag\$5) near5 (digital near3 camera) near5 (memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 09:41
L1	0	(mamang\$5) near5 (digital near3 camera) near5 (memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 09:06
S10 5	1	09/725290	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 09:05
S11 7	2	"6967675".pn	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 16:31
S11 6	0	(saving near5 thumbnail) same (tranmit\$5 near5 (photo image))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 16:31

## EAST Search History

S11 5	1	09/847811	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 16:30
S11 4	2	"6393470".pn	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 16:21
S11 3	2	"4852127".pn	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 16:02
S11 2	2	((digital near4 camera)) same (communication near5 range) and S106	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 15:04
S11 0	174	(wireless mobile PDA (digital near4 camera)) same (communication near5 range) and S106	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 13:54
S11 1	0	(wireless mobile PDA (digital near4 camera)) same (communication near5 range)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 13:47
S10 7	931641	(wireless mobile PDA (digital near4 camera))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 13:46
S10 6	2394	455/556,11,1,73,83.ccls	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 13:41
S10 4	1	(piano near4 enable\$5 near5 (camera phone printer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 13:03
S10 0	0	(piano near4 enabled near5 (camera phone printer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 12:54
S10 3	0	(piano-enabled)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 12:53

## EAST Search History

S10 2	0	(piano-enabled near5 (device))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 12:53
S10 1	0	(piano near4 enabled near5 (device))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 12:53
S99	0	(piano near4 enabled near5 (camera))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 12:52
S98	0	(pianoenabled near5 (camera))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 12:52
S97	2	"6778826".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 12:50
S96	49	(necessity) near4 (based oriented driven dependent) near5 (transmit\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 13:00
S95	5	(necessity) near4 (based oriented driven dependent) near5 (transmit\$7) same(image photo media)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 12:45
S94	32	(need) near4 (based oriented driven dependent) near5 (transmit\$7) same(image photo media)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 12:45
S54	1	(opportunistic\$5) near5 (transmit\$7) near5 (image photo media)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 12:33
S93	36	(wireless) same(upload\$5) same (image data) same (window)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 11:25
S92	2	(wireless) same(upload\$5) same (intermediar\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 11:25

## EAST Search History

S91	0	(digital near3 camera) near3 (wireless) same(upload\$5) same (intermediar\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 11:24
S70	0	(digital near3 camera) near3 (wireless) near5 (hail broadcast) near5 (search detect) near5 (wireless) same (image) same(upload\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 11:23
S90	4	(broadcast\$5) near6 (connection) near5 (request\$5) and (WPAN PAN (wireless near3 personal near3 area near3 network) (personal near3 area near3 network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 11:12
S89	5	(broadcast\$5) near6 (connection) near5 (request\$5) same (PDA (cell adj phone) (digital near4 camera))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 11:11
S4	3	(hail\$) same (respon\$5 acknowledg\$5) same (transmit\$5) and (PDA (cell adj phone))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 11:06
S88	0	(intermittent\$5) near4 (try\$5 find\$5) near5 (establish\$5) near4 (communicat\$5 link\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:59
S87	99	"0013455"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:59
S78	1	(continuous\$5) near4 (try\$5) near5 (establish\$5) near4 (communicat\$5 link\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:59
S86	0	WO near3 "0013455"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:48
S85	0	WO0013455	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:48
S84	2	"6324178".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:47

## EAST Search History

S83	2	"6181704".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:46
S82	14	"6181704"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:43
S81	127	(digital near4 camera) and (cash near4 register) near15(communicat\$5 link\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:43
S77	0	(digital near4 camera) and (continuous\$5) near4 (try\$5) near5 (establish\$5) near4 (communicat\$5 link\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:33
S80	15	(establish\$5) near4 (communicat\$5 link\$5) near5 (cash near4 register)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:28
S79	1	(continuous\$5) near4 (find\$5 look\$5) near5 (establish\$5) near4 (communicat\$5 link\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:27
S76	1	09/847811	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 10:09
S75	3	(digital near3 camera) same (search detect) same(wireless) same (image) same(upload\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:14
S74	0	(digital near3 camera) same (search detect) near10(wireless) same (image) same(upload\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:13
S73	0	(digital near3 camera) near10 (search detect) near10(wireless) same (image) same(upload\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:13
S72	0	(digital near3 camera) near10 (hail broadcast) near10 (search detect) near10(wireless) same (image) same(upload\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:13

## EAST Search History

S71	0	(digital near3 camera) near5 (hail broadcast) near5 (search detect) near5 (wireless) same (image) same(upload\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:13
S69	2	(digital near3 camera) near3 (wireless) and (image) same(upload\$5) same (wireless) same (hail broadcast search detect)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:12
S68	0	(digital near3 camera) near3 (wireless) and (memory) same(upload\$5) same (wireless) same (hail broadcast search detect)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:09
S67	0	(digital near3 camera) near3 (wireless) and (memory) and (upload\$5) near5 (wireless) near5 (hail broadcast search detect)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:09
S66	0	709/S.ccls. and (digital near3 camera) near3 (wireless) and (manag\$5) near4 (memory) and (upload\$5) near5 (wireless)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:08
S65	0	709/S.ccls. and (digital near3 camera) and (manag\$5) near4 (memory) and (upload\$5) near5 (wireless)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:07
S60	21	(digital near3 camera) and (manag\$5) near4 (memory) and (upload\$5) near5 (wireless)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 07:07
S64	5	09/434,703	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 16:34
S63	2	09/660531	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 16:34
S62	1	09/994583 and cleary	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 16:33
S61	2	09/537,001	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 16:19

## EAST Search History

S59	0	(dynamic\$5) near4 (manag\$5) near4 (memory) and (upload) near5 (wireless)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 15:15
S58	0	(digital near3 camera) and (dynamic\$5) near4 (manag\$5) near4 (memory) and (upload) near5 (wireless)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 15:15
S57	705	(digital near3 camera) and (availabl\$5) near5 (transmit\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 15:14
S56	3	(digital near3 camera) and (opportunistic\$5) near5 (transmit\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 15:13
S55	70	(opportunistic\$5) near5 (transmit\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 14:47
S53	0	(wireless near3 digital near3 camera) and (opportunistic\$5) near5 (transmit\$7) near5 (image photo media)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 14:47
S52	4	(look\$5 search\$5 locat\$5) near4 (opportuni\$5 available range) near4 (wireless) near4 (communicat\$5) near4 (link)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 14:39
S51	310	(look\$5 saerch\$5 locat\$5) near4 (wireless) near4 (communicat\$5) near4 (link)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 14:32
S48	0	(look\$5) near4 (wireless) near4 (coomunicat\$5) near4 (device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 14:31
S47	0	(look\$5) near4 (wireless) near4 (transport\$5) near4 (device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 14:31
S43	1	(kirani) and (2002/0032027)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 14:29
S45	1	"20020032027".PN	US-PGPUB	OR	ON	2005/10/27 14:11

## EAST Search History

S44	1	"20020032027".PN.	US-PGPUB	OR	ON	2005/06/01 06:57
S31	2	"6549674".pn	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/01 06:55
S42	72	"709"/\$.ccls. and (personal adj area adj network) and (transmit\$5 transfer\$5) near5(image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 12:40
S41	48	"370"/\$.ccls. and (personal adj area adj network) and (transmit\$5 transfer\$5) near5(image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 12:40
S40	306	"370"/\$.ccls. and (personal adj area adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 12:37
S27	2345	(personal adj area adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 12:35
S39	30	(deactivat\$5) near4 (transceiver transmi\$5) and (digital adj camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 11:17
S38	1	(manual\$5) near4 (deactivat\$5) near4 (transceiver transmi\$5) and (digital adj camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 11:17
S37	27	(manual\$5) near4 (deactivat\$5) near4 (transceiver transmi\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 11:17
S36	0	(manual\$5) near4 (deactivat\$5) near4 (transceiver)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 11:16
S35	697	(manual\$5) near4 (deactivat\$5 stop\$5 prevent\$5) near4 (transceiver transmi\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 11:16
S34	1	(digital near4 camera) same (manual\$5) near4 (deactivat\$5 stop\$5 prevent\$5) near4 (transceiver transmi\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 11:15

## EAST Search History

S33	4	(digital near4 camera) same (button switch selector) near4 (deactivat\$5 stop\$5 prevent\$5) near4 (transceiver transmi\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 11:15
S32	78	(digital near4 camera) same (button switch selector) same (deactivat\$5 stop\$5 prevent\$5) same (transceiver transmi\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 11:13
S24	0	(manag\$5 monitor\$5) near5 (digital near4 camera) near5 (memeory) and(transceiver) and (internet) and (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 11:11
S30	2	"6789118".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 10:32
S15	2	"6549674".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:51
S29	67	(personal adj area adj network) same (digital adj camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:18
S28	0	S27 and (transmit\$5 transfer\$5) near5(DCF) near5 (digital near3 camera) same (transfer\$5) same (delet\$5) and (thumbnail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:17
S12	1	(transmit\$5 transfer\$5) near5(DCF) near5 (digital near3 camera) same (transfer\$5) same (delet\$5) and (thumbnail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:17
S26	0	(manag\$5 monitor\$5) near5 (digital near4 camera) near5 (memeory) and(transceiver) and (personal adj area adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:16
S25	0	(manag\$5 monitor\$5) near5 (digital near4 camera) near5 (memeory) and(transceiver)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:16
S23	4	(personal adj area adj network) and(digital near4 camera)same (transceiver) and (Internet) and (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:15

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S22	0	(personal adj area adj network) and(digital near4 camera)same (transceiver) same (internet) same (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:10
S20	0	(personal adj area adj network) same(digital near4 camera)same (transceiver) same (internet) same (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:10
S21	18	(digital near4 camera)same (transceiver) same (internet) same (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:08
S18	34	(personal adj area adj network) same(transmit\$5 transfer\$5) near5 (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:06
S19	2	"6181704".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 09:02
S16	350	(eventual\$5) near5(transmit\$5 transfer\$5) near5 (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 08:50
S17	0	(eventual\$5) near5(transmit\$5 transfer\$5) near5 (DCF) near5 (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 08:43
S8	8	(opportunistic\$5) near5(transmit\$5 transfer\$5) near5 (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 08:43
S14	47	(transmit\$5 transfer\$5) same (digital near3 camera) same (transfer\$5) same (delet\$5) and (thumbnail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 08:08
S13	1	(transmit\$5 transfer\$5) same(JPRG) same (digital near3 camera) same (transfer\$5) same (delet\$5) and (thumbnail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 07:59
S11	0	(establish\$5) same (digital near3 camera) same (transfer\$5) same (delet\$5) and (thumbnail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 07:58

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S10	0	(establish\$5) near5 (digital near3 camera) same (transfer\$5) same (delet\$5) and (thumbnail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 07:58
S7	4	(transmit\$5 transfer\$5) near5(DCF) near5 (image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 07:58
S9	0	(opportunistic\$5) near5(establish\$5) near5 (digital near3 camera) same (transfer\$5) same (delet\$5) and (thumbnail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 07:57
S6	46	(transmit\$5 transfer\$5) near5(DCF) near5 (data image file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/31 07:50
S5	199	(broadcast\$5 multicast\$5) same (respon\$5 acknowledg\$5) same (transmit\$5) and (digital adj camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/26 17:06
S3	1	(hail\$) same (respon\$5 acknowledg\$5) same (transmit\$5) and (digital adj camera)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/26 16:21
S2	336	(hail\$) same (respon\$5 acknowledg\$5) same (transmit\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/26 16:18
S1	12461	(hail\$ broadcast\$5 multicast\$5) same (respon\$5 acknowledg\$5) same (transmit\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/26 16:18